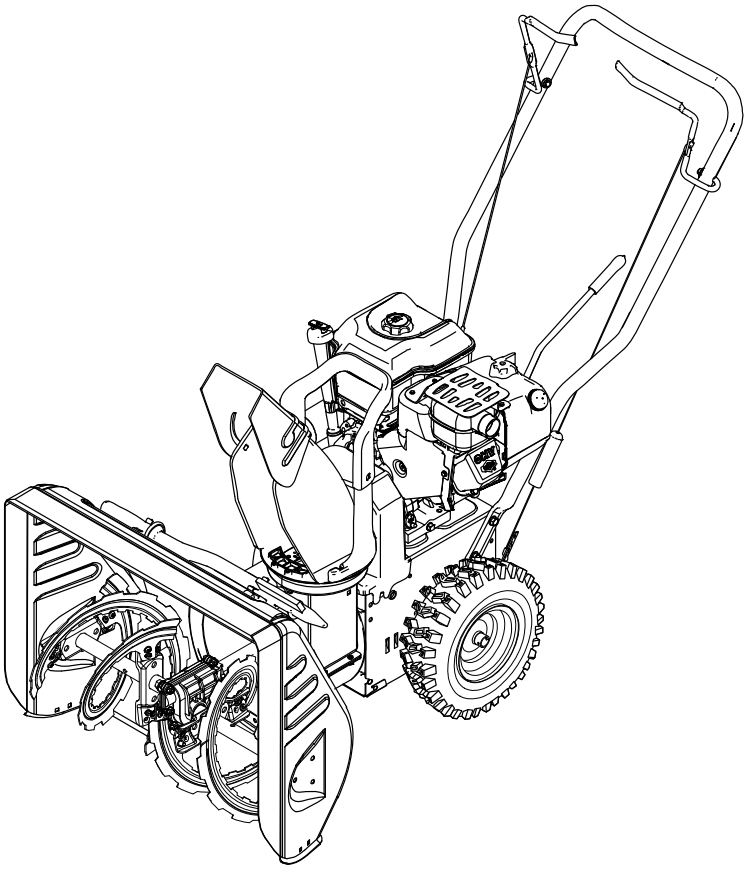
MURRAY™

Parts Manual



Dual Stage Snowthrower

Models

Mfg. No.	Description
1695978	Murray 8TP 24" Dual Stage Snowthrower (2011)

Manual Part No. 1753567
Revision A
Rev. Date: 10/24/2011

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Engine Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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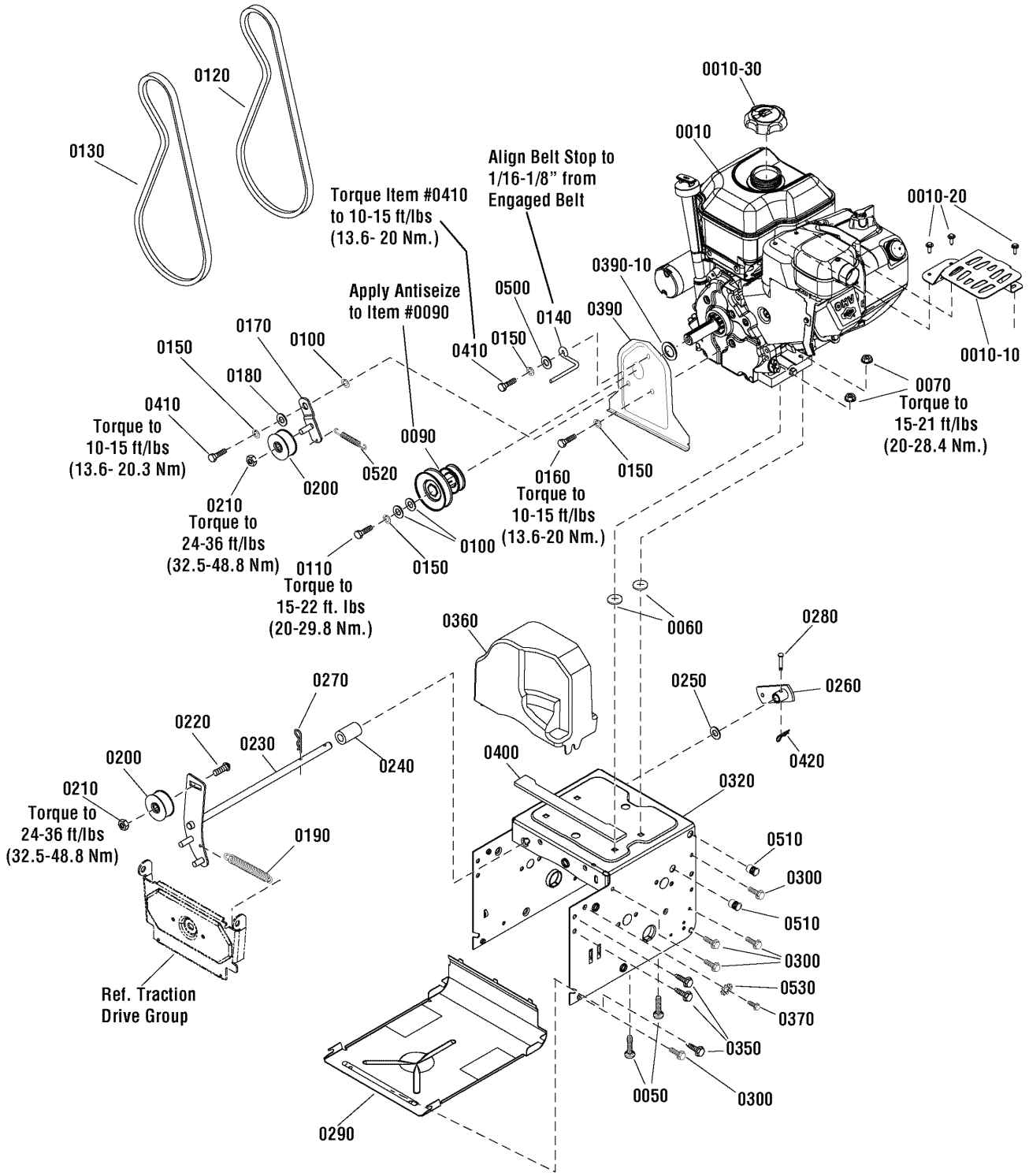

The above parts group applies to the following Mfg. Nos.:

1695978 - Murray 8TP 24" Dual Stage Snowthrower (2011)

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Engine Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	12A112-0152-E8	1	* ENGINE, 8TP Briggs & Stratton, Snow Series (Engine Model: 12A112-0152-E8)
0010-10	797003	1	GUARD, Muffler, Plate
0010-20	699234	3	SCREW, Hex Head, Muffler Guard
0010-30	795027	1	CAP, Fuel
0050	1931337SM	4	BOLT, Carriage, Short Neck, 5/16-18 x 1-1/2, G5
0060	028X76MA	4	PUSHNUT, 1/4
0070	1739305YP	4	NUT, Hex Flange, ESNA, 5/16-18
0090	1501109MA	1	PULLEY, Engine
0100	1919381SM	3	WASHER, 5/16
0110	1921982SM	1	CAPSCREW, Hex Head, 5/16-24 x 1-1/4, G5
0120	1733324SM	1	V-BELT, Traction Drive, 3L 33.13
0130	1751417YP	1	BELT, Auger
0140	1739070YP	1	BELT GUIDE
0150	1917356SM	4	LOCKWASHER, Spring, 5/16
0160	1921515SM	1	CAPSCREW, Hex Head, 5/16-24 x 3/4, G5
0170	1501112YZMA	1	BRACKET, Idler
0180	1501065MA	1	BUSHING, Idler Bracket
0190	165X159MA	1	SPRING, External, Auger 7/16 ID x 5-1/8 x 3/4 W
0200	1502120MA	2	IDLER, Plastic Ball Bearing
0210	1960251SM	2	NUT, Hex Centerlock Jam, 3/8-16
0220	585781MA	1	BOLT, Carriage, 3/8-16 x 1-1/4
0230	1501226YZMA	1	IDLER ASSEMBLY, Auger
0240	1501200MA	1	SPACER, Auger Idler
0250	1960027SM	1	WASHER, Flat, 1/2
0260	1733451SM	1	ARM, Control
0270	0031X6MA	1	PIN, Hair, 3/8 x 1-5/8
0280	1736381YP	1	PIN, Clevis
0290	1740906ASM	1	PANEL, Bottom
0300	1927429SM	10	CAPSCREW, Hex Washer Head, Taptite, 1/4-20 x 5/8
0320	1751698BIYP	1	FRAME BOX
0350	1664847SM	6	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0360	1751525YP	1	COVER, Belt
0370	1751355YP	2	SCREW, Hex Washer Head, 1/4-20 x 3/4
0390	1733868BZYP	1	PLATE, Seal
0390-10	1733898SM	1	SEAL, Foam
0400	1750172YP	1	STRIP, Seal
0410	910828MA	2	BOLT, Hex 5/16-24 x 1
0420	7090555YP	1	PIN, 3/32 x 1/2" Cotter
0500	7091528SM	1	WASHER, Flat, 3/8 x 7/8
0510	1752526YP	4	THREADED INSERT, Open End, 5/16-18
0520	165X164MA	1	SPRING, Extension, Idler
0530	7091890SM	2	WASHER, Internal Tooth, 1/4

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Footnotes

Note* See your local Briggs & Stratton distributor for parts and service.

The above parts group applies to the following Mfg. Nos.:

1695978 - Murray 8TP 24" Dual Stage Snowthrower (2011)

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Traction Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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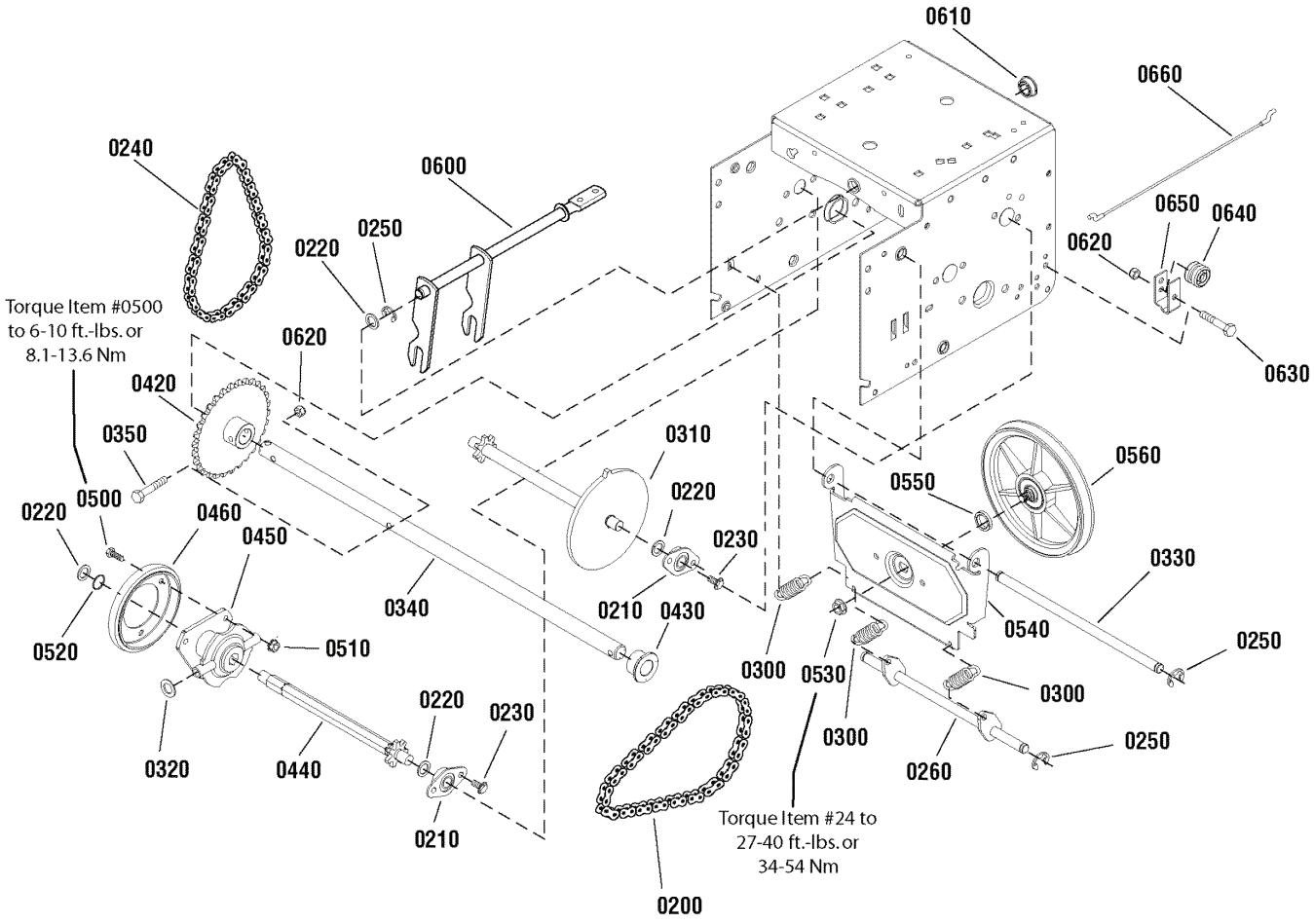

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Traction Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
0200	579851MA	1	CHAIN, Roller, #420 x 19.00
0210	334163MA	4	BEARING AND RETAINER ASSEMBLY
0220	579858MA	5	WASHER, Flat, 1/2
0230	1924856SM	8	CAPSCREW, Hex Washer Head, Taptite, 5/16-18 x 1/2
0240	579868MA	1	CHAIN, ROLLER #420 X 18.00 LG
0250	11X30MA	5	RETAINER, Ring, 7/16
0260	1502105YZMA	1	SPRING LINK ASSEMBLY
0300	1736469YP	3	SPRING, Extension
0310	1501090MA	1	SPROCKET, Set
0320	1960027SM	2	WASHER, 1/2
0330	1751416YP	1	AXLE, 3/4 Dia. x 17-7/8
0340	1501092YZMA	1	AXLE
0350	01X193MA	1	CAPSCREW, Hex, 1/4-20 x 1-3/4, G8
0420	1501089MA	1	SPROCKET, Axle
0430	1501114MA	2	BEARING, Axle, D-Hole
0440	1501236MA	1	SHAFT, Hex, 7T
0450	1739282YP	1	HUB, Friction Wheel & Bearing
0460	1501435MA	1	WHEEL, Friction Disc
0500	1921959SM	3	CAPSCREW, Hex Head 1/4-20 x 5/8 G5
0510	1928372SM	3	NUT, Hex KEPS 1/4-20
0520	1733326SM	1	RING, Retaining Extension
0530	15X114MA	1	NUT, Flange Locking, 3/8-24
0540	1501057YZMA	1	PLATE, Swinging
0550	1501158MA	1	SPACER, Friction Pulley
0560	1501115MA	1	FRICTION PULLEY ASSEMBLY
0600	1501085YZMA	1	ROD ASSEMBLY, Speed Select
0610	579944MA	1	BEARING, Flange,1/2 ID x 7/8 OD
0620	1920397SM	2	NUT, Hex Lock, ESNA LIGHT, 1/4-20
0630	1922837SM	1	CAPSCREW, Hex Head, 1/4-20 x 1-1/2 G5
0640	579860MA	1	SPOOL CABLE, Auger Control
0650	1501059YZMA	1	BRACKET, Cable Spool
0660	1501122MA	1	CABLE, Front Drive Lower All

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Footnotes

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Auger Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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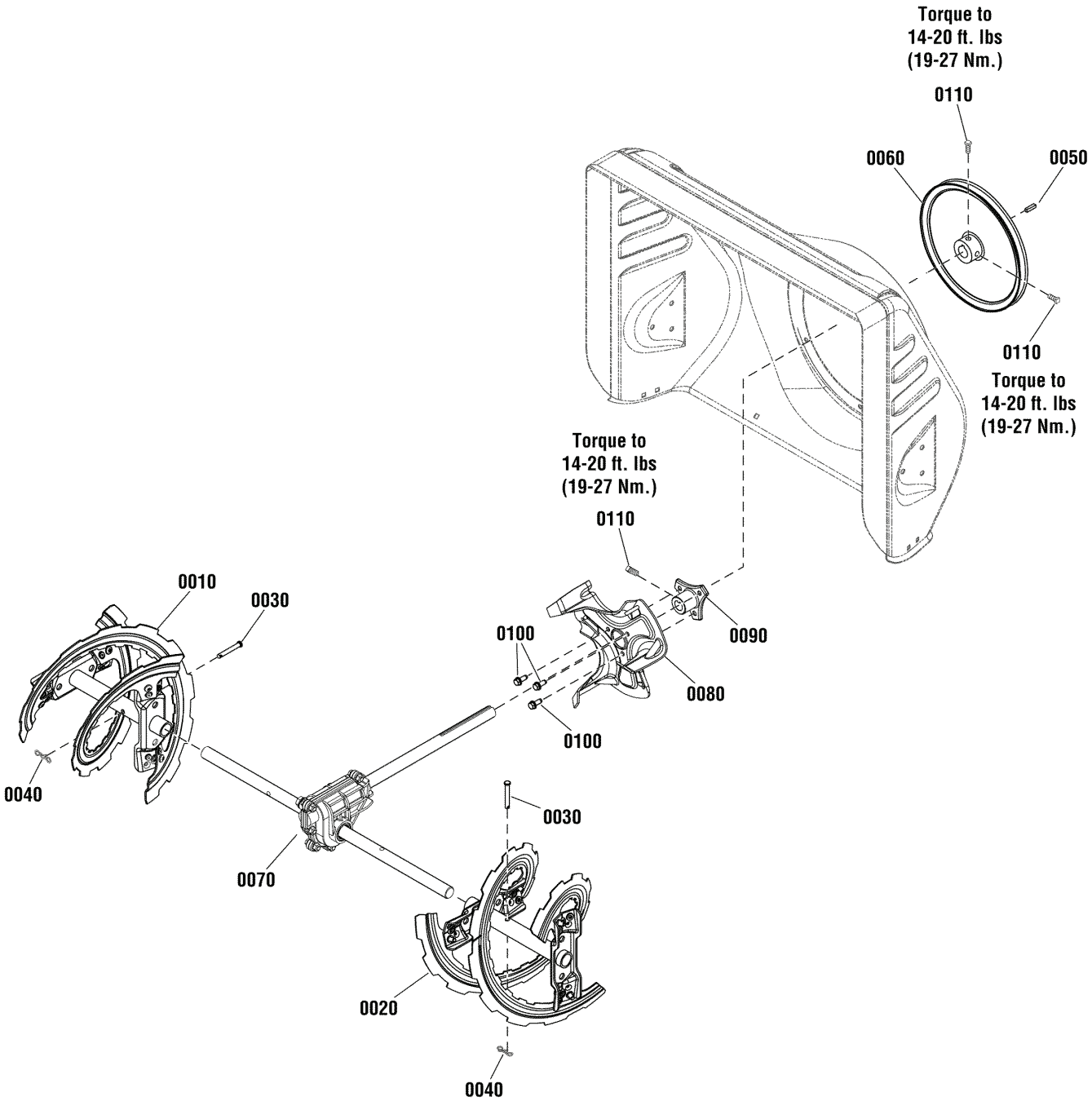

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Auger Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1752081AYP	1	AUGER ASSEMBLY, RH
0020	1752067AYP	1	AUGER ASSEMBLY, LH
0030	1739295YP	2	PIN, Shear, 1/4 x 1-3/4
0040	1739292YP	2	PIN, Cotter, Bow Tie, 3/16
0050	2001022MA	1	KEY, Square, 3/16 x 3/4
0060	1752220YP	1	PULLEY, Auger
0070	1753221YP	1	GEAR CASE ASSEMBLY, 24"
0080	1751348AYP	1	IMPELLER
0090	1739073YP	1	HUB, Impeller
0100	1924856SM	3	SCREW, Hex Washer Head, Taptite, 5/16-18 x 1/2
0110	1930540SM	3	SETSCREW, Square Head, 5/16-18 x 5/8, G8
--	1739821YP	1	KIT, Shear Pin (Includes Ref. Nos. 0030 & 0040)

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Auger Housing Group

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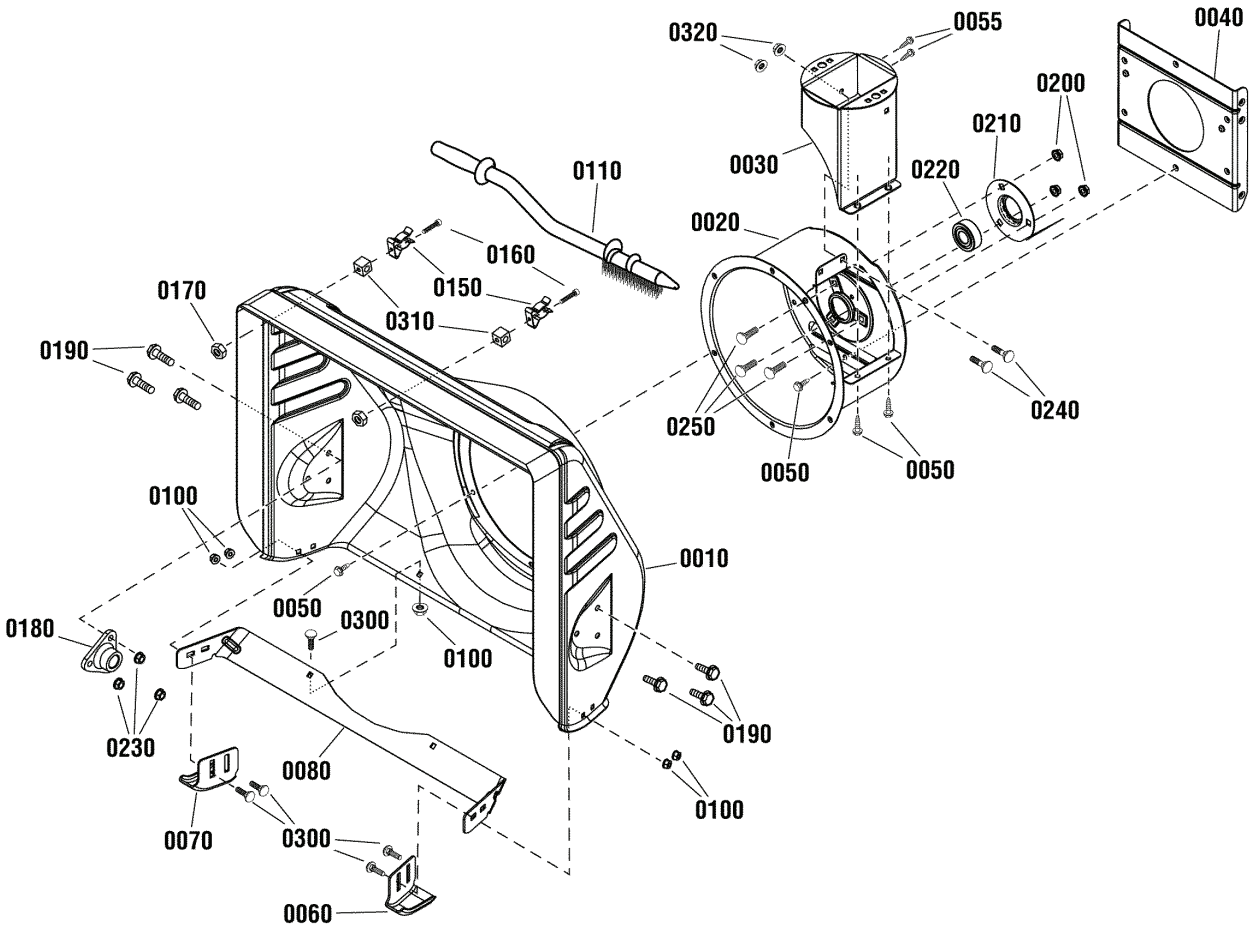
2989847



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Auger Housing Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1687634YP	1	AUGER HOUSING KIT, Stamped, VL
0020	1751278BIYP	1	HOUSING, IMPELLER, 10"
0030	1751938BIYP	1	CHIMNEY, Steel
0040	1751303BIYP	1	BRACKET, Rear Mounting
0050	1927428SM	14	SCREW, Hex Washer Head, Taptite, 1/4-20 x 3/8
0055	1750447YP	2	SCREW, Hex Washer Head, Taptite, 1/4-20 x 1/2
0060	1751407AYP	1	SKID SHOE, LH
0070	1751406AYP	1	SKID SHOE, RH
0080	1751418AYP	1	SCRAPER BAR
0100	5025391SM	6	NUT, Hex Nylock Flange, 1/4-20
0110	1736094YP	1	STICK, Cleanout Brush, 22-1/2
0150	1736620YP	2	CLAMP, Spring, Snow Brush
0160	1750897YP	2	BOLT, Truss Head, 10-24 x 1-1/4
0170	15X146MA	2	NUT, Nylock, 10 x 24
0180	9517MA	2	BEARING, Auger
0190	9357MA	6	CAPSCREW, Tapping, 5/16-18 x 3/4
0200	710026MA	3	NUT, Hex Flange, Serrated Lock, 5/16-18
0210	1665982SM	1	RETAINER, Bearing
0220	2108202SM	1	BEARING, Ball, 3/4 ID x 1-3/4 OD x 5/8"
0230	711862MA	6	NUT, Hex Flange, Top Lock, 5/16-18
0240	1931315SM	2	BOLT, Carriage, 1/4-20 x 1/2, G5
0250	7090001YP	3	BOLT, Carriage, Short Neck, 5/16-18 x 3/4
0300	1931317SM	6	BOLT, Carriage, 1/4-20 x 3/4 G5
0310	578063MA	2	BLOCK, Universal Pivot
0320	73826MA	2	NUT, Hex Center Lock, 1/4-20

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Footnotes

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Discharge Chute Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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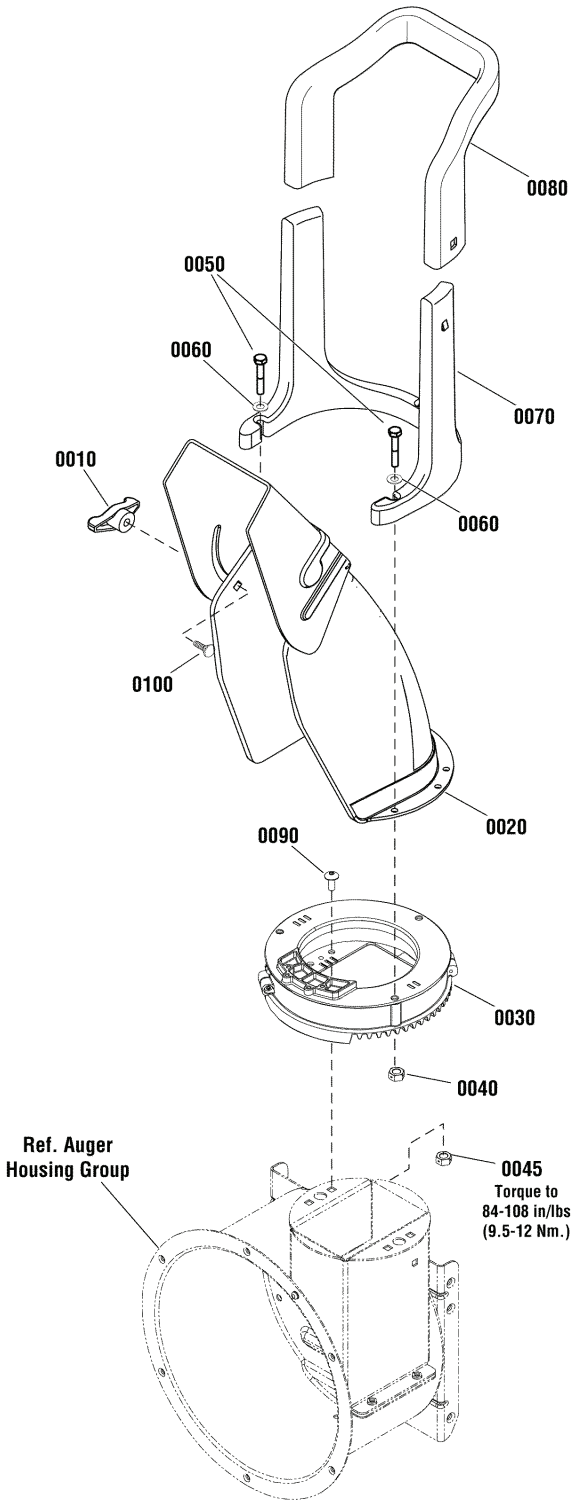

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Discharge Chute Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	7035744YP	1	KNOB, Wing, 5/16-18
0020	1736313YP	1	CHUTE ASSEMBLY
0030	1751886YP	1	CHUTE ROTATION ASSEMBLY
0040	15X145MA	3	NUT, Hex Nylock, 1/4-20
0045	1923358SM	4	NUT, Hex Centerlock, 1/4-20
0050	51374YP	3	CAPSCREW, Hex Head, 1/4-20 x 1-1/2, G5
0060	017X37MA	3	WASHER, 1/4
0070	1752117YP	1	HANDLE, Lower
0080	1752243YP	1	HANDLE, Upper
0090	880845YP	4	SCREW, Torx, 1/4-20 x 5/8
0100	002X97MA	1	BOLT, Carriage, 5/16-18 x 1-1/2

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Handles & Controls Group

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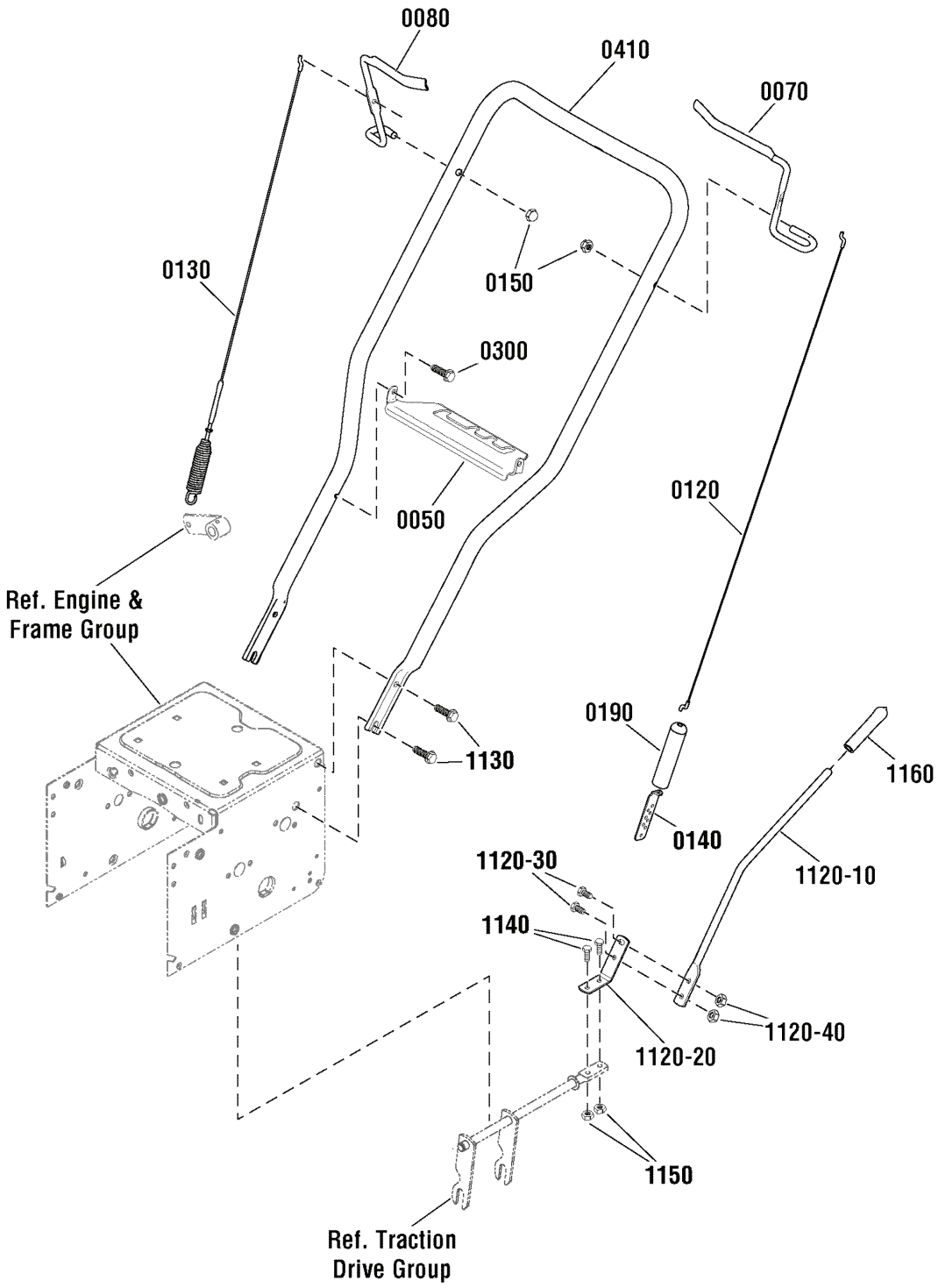

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Handles & Controls Group

REF NO	PART NO.	QTY.	DESCRIPTION
0050	1752386AYP	1	GEAR SELECT BRACKET
0070	1752027AYP	1	BAIL, LH Drive
0080	1752028AYP	1	BAIL, RH Drive
0120	1501124MA	1	CABLE, Front Drive, 32"
0130	1737544YP	1	CABLE, Auger Drive
0140	313441MA	1	BRACKET, Cable Adjusting
0150	1960093SM	2	NUT, Push Pal 5/16 Diameter Stud Capped
0190	308146MA	1	BOOT, Spring End Cover
0300	26X263MA	2	CAPSCREW, Hex, 1/4-20 x 19/32
0410	1751584AYP	1	HANDLE
1120-10	1752853AYP	1	ROD, Shift
1120-20	760564MA	1	LEVER, Spring Shift
1120-30	302628MA	2	BOLT, Hex, 1/4-20 x 3/4
1120-40	73826MA	2	NUT, Hex Center Lock, 1/4-20
1130	1752940YP	4	BOLT, Hex Flange, 5/16-18 x 1
1140	302628MA	2	BOLT, Hex, 1/4-20 x 3/4
1150	73826MA	2	NUT, Hex Center Lock, 1/4-20
1160	331624MA	1	GRIP

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Wheel & Tire Group

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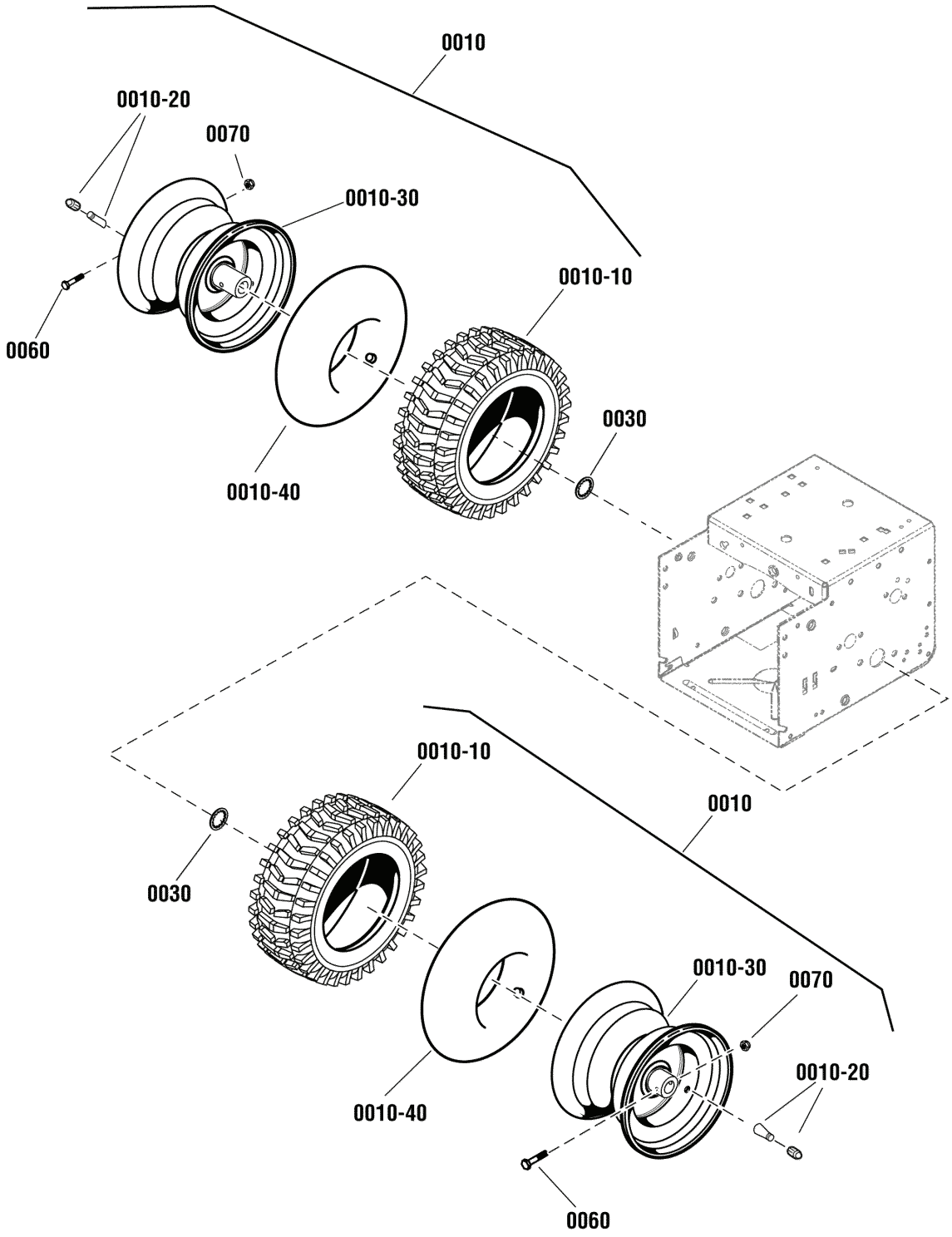

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Wheel & Tire Group

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1752391YP	2	WHEEL & TIRE ASSEMBLY (Includes Ref. Nos. 0010-10, 0010-20, 0010-30 & 0010-40)
0010-10	1752426YP	1	TIRE, 4.10-4
0010-20	2172353SM	1	VALVE STEM & CAP
0010-30	-----	1	* WHEEL, Rim
0010-40	2164247SM	1	TUBE, Tire
0030	1657528SM	2	RETAINING RING, Self Locking
0060	577015MA	2	CAPSCREW, Hex, 1/4-20 x 1-3/4, G5
0070	15X145MA	2	NUT, Hex Nylock, 1/4-20

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Footnotes

* Not a servicable part. Order complete wheel and tire assembly.

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Gear Case Assembly

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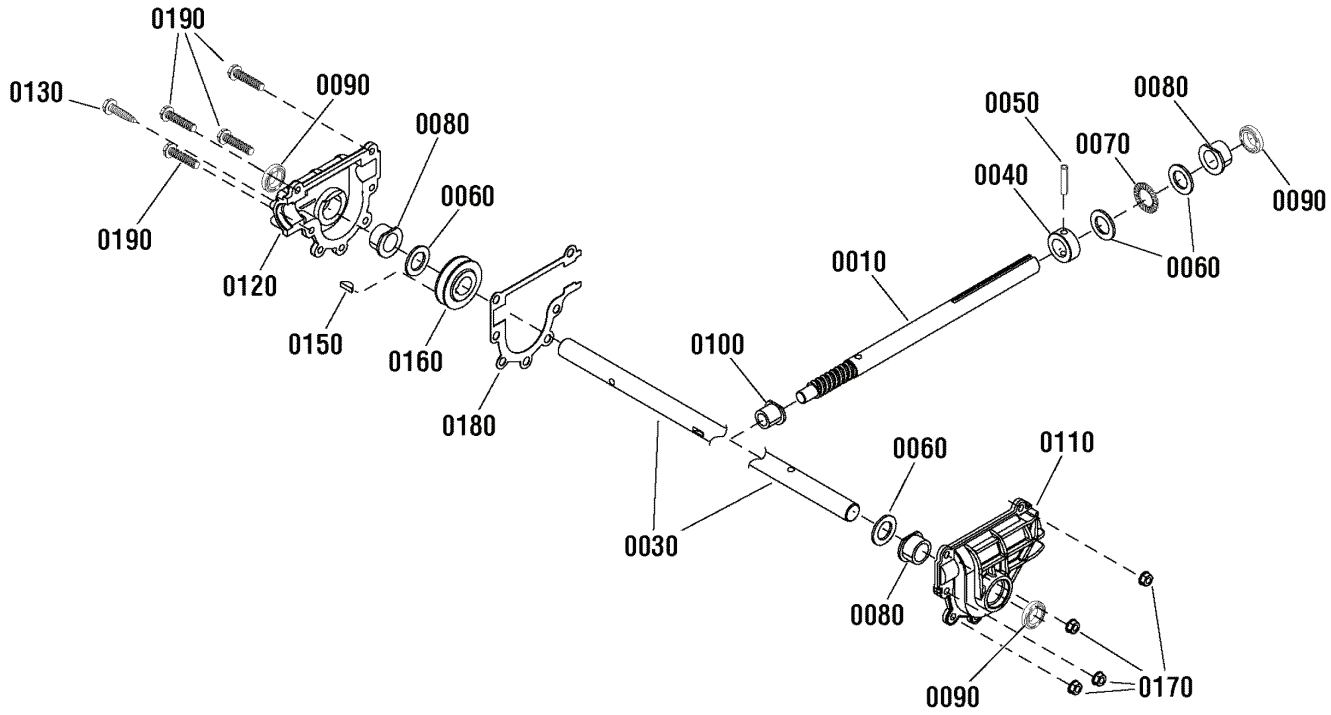
1753221



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Gear Case Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
0010	1751402YP	1	SHAFT, Impeller
0030	1751419YP	1	SHAFT, Auger
0040	580295MA	1	COLLAR, Thrust, 3/4 x 1-1/4
0050	454565MA	1	PIN, Spring, 1/4 x 1-1/4
0060	48275MA	4	WASHER, Thrust
0070	50684MA	1	BEARING, Roll Thrust, 3/4 ID x 1-1/4 OD
0080	50304MA	3	BEARING, Flange, 3/4 ID x 1 OD
0090	9566MA	3	SEAL, Oil
0100	50221MA	1	BEARING, Flange, 1/2 ID x 3/4 OD
0110	10576MA	1	CASE, Gear, LH
0120	10577MA	1	CASE, Gear, RH
0130	9344MA	1	SCREW, Hex Washer Head, Tap, 3/8-16 x 1/2
0150	431787MA	1	KEY, Woodruff
0160	1752499YP	1	GEAR, Worm
0170	15X143MA	7	NUT, Flange Lock, 1/4-20
0180	51279MA	1	GASKET
0190	710025MA	7	CAPSCREW, 1/4-20 x 3/4, GR5

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Decals Group

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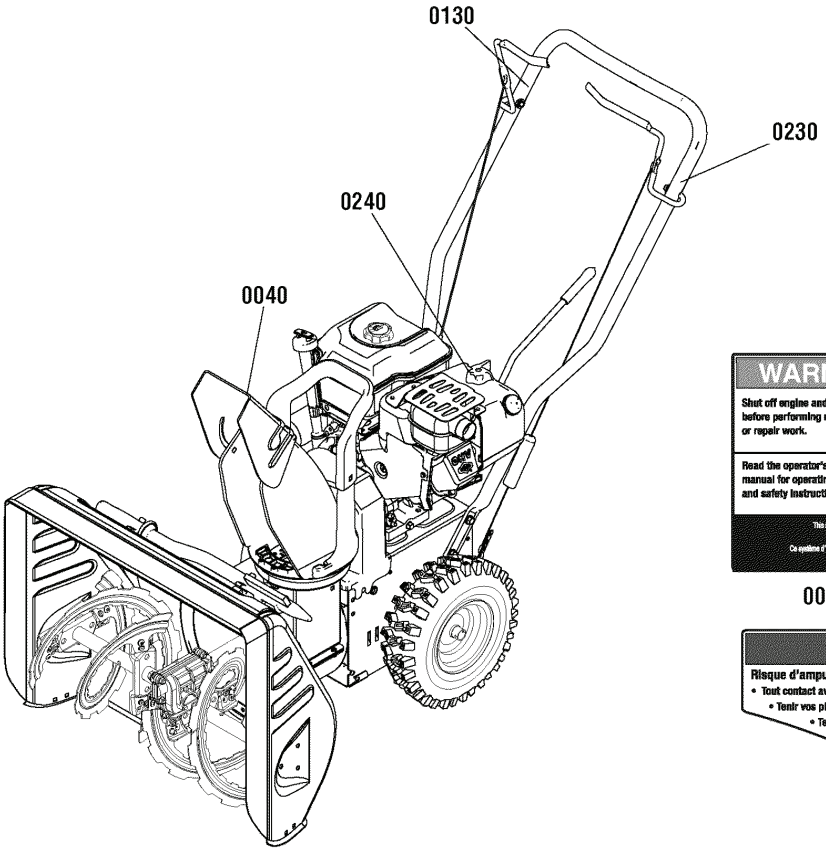
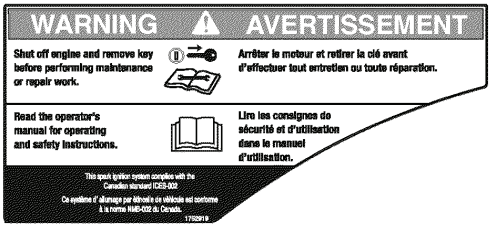
2989990

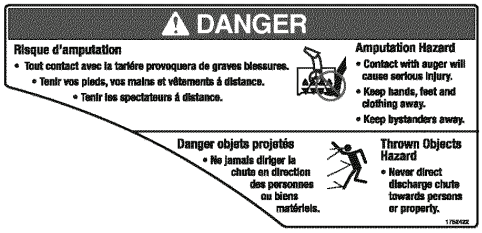


DANGER
Amputation hazard
Contact with moving parts inside chute will cause serious injury.
• Shut off engine before unclogging discharge chute.
• Use clean-out tool, not hands!
Risque d'amputation
Tout contact avec des pièces en mouvement à l'intérieur de la goulotte provoquera de graves blessures.
• Arrêter le moteur avant de dégager la goulotte d'éjection.
• Utiliser l'outil de dégagement, pas les mains!

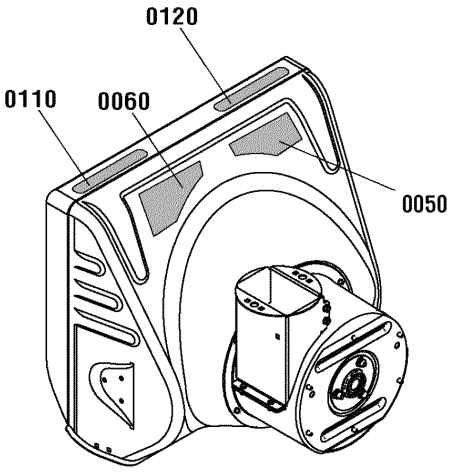
0040


WARNING
AVERTISSEMENT
Shut off engine and remove key before performing maintenance or repair work.
Arrêter le moteur et retirer la clé avant d'effectuer tout entretien ou toute réparation.
Read the operator's manual for operating and safety instructions.
Lire les consignes de sécurité et d'utilisation dans le manuel d'utilisation.

0060


DANGER
Risque d'amputation
• Tout contact avec la tarière provoquera de graves blessures.
• Tenir vos pieds, vos mains et vêtements à distance.
• Tenir les spectateurs à distance.
Amputation Hazard
• Contact with auger will cause serious injury.
• Keep hands, feet and clothing away.
• Keep bystanders away.
Danger objets projetés
• Ne jamais diriger la chute en direction des personnes ou biens matériels.
Thrown Objects Hazard
• Never direct discharge chute towards persons or property.

0050



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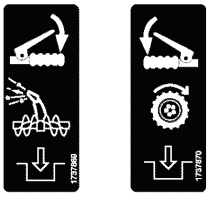

0130 0230

0240

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Decals Group

REF NO	PART NO.	QTY.	DESCRIPTION
0040	1737865YP	1	DECAL, Danger Chute, FR/ENG
0050	1752422YP	1	DECAL, Safety, EN/FR, Danger
0060	1752919YP	1	DECAL, Safety, EN/FR, Warning
0110	1752752YP	1	DECAL, Model 824RS
0120	1738309YP	1	DECAL, Murray Logo
0130	1753133YP	1	DECAL, Auger Control Symbols
0230	1753134YP	1	DECAL, Traction Control Symbols
0240	1752826YP	1	DECAL, Control

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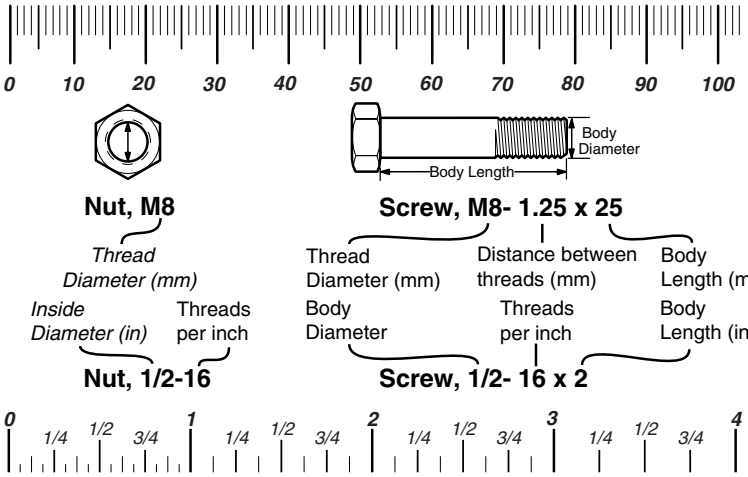
Hardware Identification & Torque Specifications

Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

Property Class	5.6 Class 5.6		8.8 Class 8.8		10.9 Class 10.9		12.9 Class 12.9	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
M3	*5.88*	*.56*	*13.44*	*1.28*	*19.2*	*1.80*	*22.92*	2.15
M4	*13.44*	*1.28*	*30.72*	*2.90*	*43.44*	*4.10*	*52.56*	4.95
M5	*26.4*	*2.50*	*60.96*	*5.75*	**5.97**	*8.10*	**7.15**	9.7
M6	*44.64*	*4.3*	**7.3**	*9.9*	**10.3**	*14*	**12.1**	16.5
M7	**5.2**	*7.1*	**12.1**	*16.5*	**16.9**	*23*	**19.9**	27
M8	**7.7**	*10.5*	**17.7**	*24*	**25**	*34*	**29**	40
M10	**15**	*21*	**35**	*48*	**50**	*67*	**59**	81
M12	**26**	*36*	**61**	*83*	**86.2**	*117*	**103**	140
M14	**42**	*58*	**101**	*132*	**136**	*185*	**162**	220
M16	**64**	*88*	**147**	*200*	**210**	*285*	**250**	340
M18	**89**	*121*	**202**	*275*	**287**	*390*	**346**	470
M20	**126**	*171*	**290**	*390*	**405**	*550*	**486**	660
M22	**169**	*230*	**390**	*530*	**559**	*745*	**656**	890
M24	**217**	*295*	**497**	*375*	**708**	*960*	**840**	1140
M27	**320**	*435*	**733**	*995*	**1032**	*1400*	**1239**	1680
M30	**435**	*590*	**995**	*1350*	**1401**	*1900*	**1681**	2280
M33	**590**	*800*	**1349**	*1830*	**1902**	*2580*	**2278**	3090
M36	**759**	*1030*	**1740**	*2360*	**2441**	*3310*	**2935**	3980
M39	**988**	*1340*	**2249**	*3050*	**3163**	*4290*	**3798**	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.


0 10 20 30 40 50 60 70 80 90 100
Body Diameter
Body Length
Nut, M8
Screw, M8- 1.25 x 25
Thread Diameter (mm)
Inside Diameter (in)
Threads per inch
Nut, 1/2-16
Thread Diameter (mm)
Distance between threads (mm)
Body Length (mm)
Body Diameter
Threads per inch
Body Length (in)
Screw, 1/2- 16 x 2
0 1/4 1/2 3/4 1 1/4 1/2 3/4 2 1/4 1/2 3/4 3 1/4 1/2 3/4 4

Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number,16, represents the *threads per inch, (1.25 thread diameter).* The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart

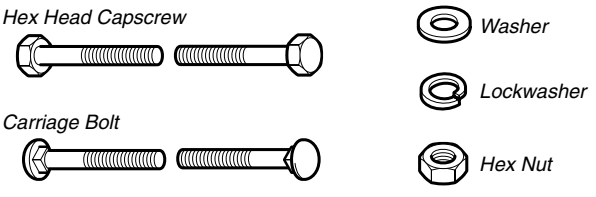
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**29**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

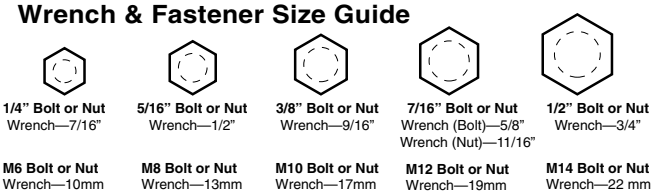
NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide


1/4" Bolt or Nut Wrench—7/16"
5/16" Bolt or Nut Wrench—1/2"
3/8" Bolt or Nut Wrench—9/16"
7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"
1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm
M8 Bolt or Nut Wrench—13mm
M10 Bolt or Nut Wrench—17mm
M12 Bolt or Nut Wrench—19mm
M14 Bolt or Nut Wrench—22 mm

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